

# ASC-500

Solvent Recovery Plant   
Product data sheet



## Your benefit

- Automatic operation
- Vibration level sensor
- High distillation performance, 100-220 l/hr \*
- Constructed acc. to latest EU directives
- High levels of operational safety

ASC, one of the most modern distillation plants world wide, constructed in intentionally small vessel size, powerful and very comfortable in operation.

**FRU**  
RECYCLING®

The **ASC-500** is a most comfortable vacuum distillation unit out of the professional series ASC. It includes a modern integrated steam heating system.

A characteristic is the conical distillation vessel made of stainless steel, where the lateral surface is heated with steam. The steam in the double jacket transfers extremely fast the energy into the solvent. At the same time a high distillation rate is reached with small vessel volume. For the integrated steam heating system only an electrical connection is necessary.

A high speed vacuum pump transfers the dirty solvent to the evaporator and guarantees a continuous 24 hour operation. During automatic distillation the quantity of solvents which is evaporated, is constantly feeded automatically by metered dirt solvent. This automatic process is adjusted by timers. If the tank of dirty solvent is empty, the plant switches automatically to "sump distillation". The continuous feeding is stopped and the remaining sludge in the vessel is evaporated to a thick concentrate. Afterwards the plant switches off and is ready for the manual or fully automatic emptying.

The distilled and/or cleaned solvent flows continuously from the distilling plant into a build-lateral tank.

A further characteristic of the ASC evaporators is a slow-running agitator with automatic self adjusting scraper blades made out of PTFE.

These blades clean optimally the conical evaporator vessel and need no re-adjustment. The total distillation process is controlled by a SIEMENS microprocessor. The emptying of the high viscose residue is done by natural gravity over a drainage valve at the bottom of the conical round vessel. The plant can be re-filled again automatically with dirty solvent. A new continuous recycling process begins.

Typical area of application: 800-1800 l / shift



Product benefits	
<ol style="list-style-type: none"> <li>1. Product-affected parts in stainless steel</li> <li>2. Automatic and continuous feeding with dirty solvents → Filling level is kept constant. Plant distills always further, no batch operation</li> <li>3. Conical distillation vessel in stainless steel AISI 304 with lathe and plain surface. → Easy and complete drainage of vessel content by natural gravity and scraper support</li> <li>4. Perfect scraper system: → Blades keep free the evaporator walls from settlements → no re-adjustment necessary → guarantee an optimal and real cleaning effect.</li> </ol>	<ol style="list-style-type: none"> <li>5. Integrated modern steam heating system: → Solvent is heated up faster than with conventional thermal oil heating systems → No oil change necessary = saves money and maintenance → No incrustation of heating elements any more, always constant heating power → No oil sludge in the machine → Closed system: No corrosion of vessel because of air moisture</li> </ol>

Technical data	ASC-500
Filling volume constantly, level controlled	225 l
Distillation rate approx.	100-220 l/h *
Heating up time approx.	1,0 h *
Heating temperature	max. 180 °C
Pressure steam in double jacket	max. 10 bar
Vacuum abs.	max. 50 mbar
Electrical connection	380-410 V / 50 Hz / 3Ph
Power consumption steam heating	24 kW
Power consumption vacuum unit	1,1 kW
Consumption air pressure approx.	6 bar max., 50 l/min
Consumption cooling water (8-13° C) approx.	1-3 m³/h
Width x Depth x Hight / Weight approx.	2,2 x 1,1 x 3,2 [m] / 1600 kg

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\* Abhängig vom Lösemitteltyp / Dependent on type of solvent. \*\*Begleitenden Depotstelle nach RL 94/9/EG, depositary, notified body acc. RL 94/9/EG  
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